



**Oakland County CLEMIS -
Courts & Law Enforcement Management Information System**
<http://www.co.oakland.mi.us/clemis>

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Overview

- Oakland County launched a Law Enforcement Consortium to provide data sharing and low-cost access to criminal information via cutting-edge computer technology to criminal justice and public safety agencies. The Consortium was named CLEMIS.
- CLEMIS promotes communication and sharing of criminal justice information among agencies.
- The CLEMIS vision is to enhance law enforcement and fire operations as well as to provide the tools to perform comprehensive planning.

CLEMIS Membership

- CLEMIS started with three Police Departments in 1968 and in 2005 has grown to 100 Police Departments and 60 Fire and EMS Departments.
- The membership now includes agencies located in six counties of southeastern Michigan: Oakland, Macomb, Livingston, Washtenaw, Wayne, and Genessee.
- The U.S. Justice Department has suggested that CLEMIS may be the largest and the longest standing consortium of autonomous public safety agencies in the United States.

Governance

- The Oakland County Executive has facilitated a BOTTOM up governing body for the CLEMIS operation.
- Police and Fire Chiefs steer the direction through their majority vote on the board.
- The relationship between Oakland County government and the local cities, villages, and townships is unique and based on mutual trust. Oakland funds nearly 85% of the operations cost for the cities, villages and townships public safety agencies.

Where We Were

- In 1968, three Oakland County Police agencies agreed to provide batch reports across jurisdictional lines facilitated through the use of the mainframe computer.
- By 1982, 41 Oakland County Police agencies were sharing a common Records database.
- In 1989, CLEMIS rolled out approximately 500 Mobile Data Terminals in police cars across the County.
- In 1995, CLEMIS implemented a regional Mugshot system. Livescan was implemented in 1996 with three devices. Mainframe CAD was in 15 dispatch centers.
- In 1998, CLEMIS was awarded \$23 million dollars in grant monies to implement a new Mobile Data Reporting System, a new Records Management System, as well as a new Computer-Aided Dispatch system.

Where We Are

- As of May 2005, there are approximately 160 agencies using various CLEMIS applications.
- There are 1,539 Mobile Data Computers across Oakland and surrounding Counties that replaced the 500 Mobile Data Terminal System.
- There are 63 Livescan devices operating at participating CLEMIS agencies.
- CAD (Computer-Aided Dispatch) is in 50 dispatch centers, and 66 agencies are using the CLEMIS Records Management System.
- CLEMIS offers many Public Safety solutions and provides training for all systems: CAD, Records Management, MICR, Management Reports, Mobile Data Computers, Field-Based Reporting, LEIN, Video Arraignment, Mugshot, Livescan, Business Re-engineering, Investigative Inquiry, Crime Analysis and Mapping, GEO File Maintenance, Fire Records Management, a Voice Radio System, and training for all levels of staff.

Where We Are Going

- CLEMIS has agreed to share access to Police Records management data with the Michigan State Police, Detroit Police Department, as well as 60 other out-state agencies. This agreement will put 70% of all criminal reports on one system. The agreement will put 63 % of all Michigan sworn officers on one system. It will be the nation's standard.
- CLEMIS is implementing a countywide OakVideo System (Video Arraignment and Warrant Teleconferencing). This system will allow a prisoner to be arrested in one jurisdiction and be arraigned in multiple locations without ever moving his body. The OAKNet wide-area network, a \$7 million dollar investment, is the backbone for communication. OakVideo was awarded the Poly Comm internal award for innovation for a unique video and document transfer system.
- CLEMIS is rolling out a voice radio system that will support all Police and Fire agencies in Oakland County on voice over TCP/IP wireless radio. This system was developed by MA/COM and is called "Open Sky". The 5,000 plus Public Safety

radios in Oakland County will be part of cutting-edge technology that also integrates all other radio systems. It is the only true interoperable radio system in the Country.

- CLEMIS has developed three CrimeWatch Community Policing Web sites to help reduce crime. Public Safety agencies can provide criminal activities and/or statistics that take place in their communities to the general public. The second web site can be used as a communication tool within their own department, and the third is a "regional" site for information to be shared by all CLEMIS participating agencies.

Awards

National Association of Counties Achievement Awards

- 1991 - County-Wide Mobile Data Terminal Network
- 1993 - Regional Computer Aided Dispatch System
- 1996 - Video Teleconferencing
- 1997 - Regional Mugshot System
- 2003 - OakVideo

Outstanding Joint Public Services Award

- 1999 - CLEMIS - Honorable Mention (SEMCOG - Southeast Michigan Council of Governments & MAC - Metropolitan Affairs Coalition)
- 2000 - CLEMIS Technology Enhancements (SEMCOG - Southeast Michigan Council of Governments & MAC - Metropolitan Affairs Coalition)

Best Practice Award

- 2003 OakVideo (Polycom User Group)



OAKNet

<http://www.co.oakland.mi.us>

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Overview

The OAKNet project was a major renovation of Oakland County's information infrastructure, which was started in 1999 and completed in 2001. OAKNet provides the means to deliver network based services including e-mail, file sharing, Internet access, mainframe access, web services, video services, encapsulated voice transport, and County hosted application services. Prior to the installation of OAKNet, access to information systems outside Oakland County offices was limited to services delivered over proprietary mainframe infrastructure. This resulted in a lack of efficient information sharing, as well as the inability to deploy information systems on a wide-scale basis.

OAKNet serves to bring the County, its municipalities and its citizens into the "Internet Age", ensuring that the technological demands of the future are met. It is based on open standards and off-the-shelf cutting edge technology that takes advantage of technological breakthroughs as they occur.

The heart of the project is the "wiring" of fiber optic cable to all areas of the County. Fiber optic cable is prized for its ability to transmit enormous amounts of data over long distances at the speed of light. One strand of fiber has the bandwidth, or capacity, to transmit all of the data needed for the County. Oakland County is running multiple strands of fiber for the project.

Where we were:

Prior to 1999:

- Proprietary mainframe services over low speed (56Kbps) leased lines
- Six County offices connected by 1.5Mbps leased lines
- Distributed servers due to bandwidth limitations
- No open applications architecture

Why OAKNet?

- Coincided with vendor fiber build out in Oakland County
- Presented long term cost savings by reducing ongoing leased line costs to major sites
- Provided greater bandwidth at better price point
- Provided an ability to expand bandwidth in future – fiber has approximately 20 year life

Where we are:

OAKNet currently consists of a mix of fiber bandwidth and leased lines delivering services over an open network architecture. Fiber bandwidth is operating at 1Gbps, and leased lines (T1s) are running at a minimum of 1.5Mbps. T1 leased lines are implemented where fiber is not long-term cost effective.

In total, approximately 380 miles of fiber optic cable have been run throughout the County, as well as to areas outside the County's boundaries, to such places as Macomb and Wayne counties. On the Main County Campus, all 14 of the County's office buildings and facilities are connected, in addition to the South Campus location (Troy), the West Campus location (Walled Lake), South Health location (Southfield), and Oakland International Airport (Waterford). Two additional sites at Auburn Hills and Farmington Hills serve as aggregate sites.

The four divisions of the 52nd District Court in Oakland County are connected, using OAKNet to facilitate its video arraignments and provide access to document management systems. OAKNet connects areas such as the Drain offices, Parks, Community Corrections' facilities and Sheriff Substations for an unprecedented level of information exchange and communications capabilities.

OAKNet also connects almost all of the County's local municipalities, providing them with immediate access to the County's systems, records and information infrastructure, as well as free e-mail services. This service provides local governments with access via the Internet to land records and GIS systems without having to go to the County's offices. The region's Courts and Law Enforcement Management Information System runs on OAKNet and provides access for more than 150 different public safety agencies to the state's Law Enforcement Information Network and other region-wide law enforcement databases.

The installation of OAKNet has resulted in enormous benefits and cost savings for the taxpayers of Oakland County. It delivers critical information systems and services across all aspects of the region's governments. The end result has been more streamlined and efficient government that's safer and more secure – and an Oakland County that's poised to lead the nation in economic development and quality of life.

Where we are going:

- The future OAKNet includes the expansion of the existing services including additional web information services on behalf of the municipalities.
- Expansion of the CLEMIS consortium will continue to add additional public safety to the law enforcement customer base.
- The OAKNet fiber infrastructure can support additional upgrades to higher bandwidths including 10Gbps infrastructure as the technology matures.